

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/502,085
Source: PCF/10
Date Processed by STIC: 4/21/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

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Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/502,085

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

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PCT

RAW SEQUENCE LISTING

DATE: 04/21/2005

PATENT APPLICATION: US/10/502,085

TIME: 10:00:41

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\04212005\J502085.raw

OL 160 NUCLEOTIDES

3 <110> APPLICANT: BIOMIRA INC. et al.
 5 <120> TITLE OF INVENTION: IMMUNOSTIMULATORY, COVALENTLY LIPIDATED OIGONUCLEOTIDES
 7 <130> FILE REFERENCE: JIANG=4A PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/502,085
 C--> 10 <141> CURRENT FILING DATE: 2004-07-22
 12 <150> PRIOR APPLICATION NUMBER: 60/353,195
 13 <151> PRIOR FILING DATE: 2002-02-04
 15 <160> NUMBER OF SEQ ID NOS: 12
 17 <170> SOFTWARE: PatentIn version 3.2
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 10
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: (128H) *insufficient response*
 27 <400> SEQUENCE: 1 *give source of genetic material*
 28 cacacgtgtg *(see item 11 on Enr summary sheet)*
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 25
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Artificial
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Fig. 17 BP1-148 *same enr*
 39 <400> SEQUENCE: 2
 41 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr Arg
 42 1 5 10 15
 45 Pro Ala Pro Gly Ser Thr Ala Pro Pro
 46 20 25
 49 <210> SEQ ID NO: 3
 50 <211> LENGTH: 20
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Artificial
 54 <220> FEATURE:
 55 <223> OTHER INFORMATION: activating sequence *give source, too*
 57 <400> SEQUENCE: 3
 58 ggtgcatcga tgcagggggg
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 10
 63 <212> TYPE: PRT
 64 <213> ORGANISM: leishmani major
 66 <400> SEQUENCE: 4
 68 Glu Ala Glu Glu Ala Ala Arg Leu Gln Ala
 69 1 5 10

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```

72 <210> SEQ ID NO: 5
73 <211> LENGTH: 25
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial
77 <220> FEATURE:
78 <223> OTHER INFORMATION: MUC1 repeat consensus sequence
80 <400> SEQUENCE: 5
82 Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala Gln Thr Ala His Gly Val
83 1          5          10          15
86 Thr Ser Ala Pro Asp Glu Thr Ser Arg
87          20          25
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 12
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: MUC1 fragment
98 <400> SEQUENCE: 6
100 Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr
101 1          5          10
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 9
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: MUC1 fragment
112 <400> SEQUENCE: 7
114 Thr Leu Ala Pro Ala Thr Glu Pro Ala
115 1          5
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 9
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: MUC1 fragment
126 <400> SEQUENCE: 8
128 Ala Leu Gly Ser Thr Ala Pro Pro Val
129 1          5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 9
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: MUC1 fragment
140 <400> SEQUENCE: 9
142 Phe Leu Ser Phe His Ile Ser Asn Leu
143 1          5
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 20

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RAW SEQUENCE LISTING

DATE: 04/21/2005

PATENT APPLICATION: US/10/502,085

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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\04212005\J502085.raw

148 <212> TYPE: PRT
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: MUC1 repeat
154 <400> SEQUENCE: 10
156 Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
157 1 5 10 15
160 Pro Pro Ala His
161 20
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 28
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Fig. 17, intermediate
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (27)..(27)
176 <223> OTHER INFORMATION: Lys is modified by a palmitoyl group
178 <400> SEQUENCE: 11
180 Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Pro Asp Thr
181 1 5 10 15
184 Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Lys Gly
185 20 25
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 12
190 <212> TYPE: PRT
191 <213> ORGANISM: Plasmodium galciperum
193 <400> SEQUENCE: 12
195 Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
196 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/502,085

DATE: 04/21/2005
TIME: 10:00:42

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04212005\J502085.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,5,6,7,8,9,10,11

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/502,085

DATE: 04/21/2005

TIME: 10:00:42

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\04212005\J502085.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

STATISTICS SUMMARY

PATENT APPLICATION: US/10/502,085

DATE: 04/21/2005

TIME: 10:00:42

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\04212005\J502085.raw

Application Serial Number: US/10/502,085

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 07-22-2004

Art Unit: PCT

Software Application: PatentIN3.2

Total Number of Sequences: 12

Total Nucleotides: 30

Total Amino Acids: 159

Number of Errors: 0

Number of Warnings: 0

Number of Corrections: 2

MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)

271 C: 1 (Current Filing Date differs)